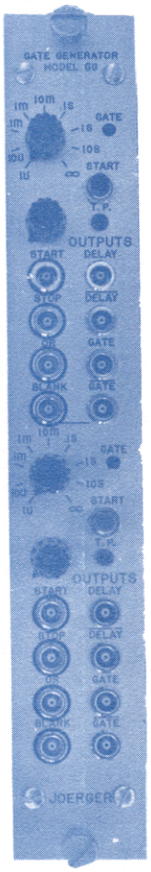
JOERGER ENTERPRISES, INC.

MODEL GG

DUAL GATE GENERATOR

FEATURES:

- *DUAL CHANNEL*
- *GATE OR DELAY GENERATOR*
- *GATE TIMES FROM 100NSEC. TO 10 SEC.*
- *RESPONDS TO NIM OR TTL INPUTS*
- *BIN GATE DRIVER*



The Joerger Enterprises, Inc. Model GG contains two Gate/Delay generators packaged in a single NIM width module. Each channel is identical and can generate a gate signal from 100nsec. to 10sec. and a delayed pulse occuring at the end of the gate signal. It also has the capability of generating a gate signal in response to a start and stop input. There is an inhibit input which will inhibit the gate output and an "OR" input which is "ORED" with the gate output. Both true and compliment gate outputs are provided that can drive NIM levels into 50 ohms. Two delay outputs are provided. One is a NIM level output, the other TTL level. The gate signal from either channel can be used to drive the bin gate pin in the connector. The channel may be chosen by use of a rear panel three position locking toggle switch which can select Channel 1, Channel 2 or neither (no bin gate). High stability timing components are used to insure stable timing.

SPECIFICATIONS (Each Channel)

INPUTS

Start	*Responds to either a NIM or TTL level signal. It has a -600mv sensitivity into 50 ohms for negative inputs and a +1.5v threshold into 1K for positive pulses. The unit is not updating and start pulses occuring during a gate period are ignored.*
Stop	*Same as for Start*
"OR"	*Accepts fast NIM signals that are "ORED" with the gate output, -600mv into 50 ohms.*
Blank	*Accepts a fast NIM signal and will inhibit the gate output when present. -600mv into 50 ohms.*

OUTPUTS

Gate, $\overline{\text{Gate}}$	*-800mv, (16ma into a 50 ohm load). Rise and fall times are less than 2nsec.*
Delayed Output, NIM	*This pulse has the same output characteristics as the gate. It is generated at the trailing edge of the gate signal and is 20nsec. wide.*

OUTPUTS CONT'D.

Delayed Output, TTL	This is a positive going pulse, TTL compatible, generated at the end of the gate signal.
Bin Gate	A +6v signal is available internally that can be used to drive the bin gate pin. Either channel can be selected by a rear panel switch. The signal goes to 0 volts during the gate time and can sink 100ma.

MANUAL CONTROLS

Gate Width Select	The gate width is set by use of a nine position switch to select eight ranges from 100ns to 10sec. in decade steps. The ninth position allows the module to be used in a Start-Stop mode. A multiturn pot is used to set the pulse width. A D.C. test point is available to allow the resetting of a selected pulse width.
Manual Start	A start pushbutton is provided to initiate a gate signal.
PROPAGATION DELAY	10nsec. maximum
GATE LIGHT	A gate light is provided to indicate the presence of a gate signal.
SIZE	#1 NIM module
CONNECTORS	Lemo Type RA00250, mating connector Type F00250.
POWER REQUIREMENTS	+6v, 360ma -6v, 395ma +12v, 31ma -12v, 130ma
TEMPERATURE RANGE	0°C to 50°C

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